
FOLIO

Arctic Schools Cultivate Empathy

The Boreal Institute together with the Faculty of Extension first began offering Northern Schools in 1971. Since their inception, some 420 to 470 managerial and professional people, involved with business and government in the far north, have attended these intense immersion schools to gain an understanding of the north and how it is effected.

The concept of a crash course on the far north was first envisioned by Alex Hemstock, Arctic Coordinator for Imperial Oil. The Boreal Institute quickly took up his suggestion and, with the aid of the Faculty of Extension, developed a program that would educate people, unfamiliar with the arctic, as to the impact of their decisions and actions on the people and environment of that delicate region.

The need for a school of this nature came with the tremendous interest and influx of resource concerned organizations to the north. With the threat of oil shortages in the future, searching for new reserves began in earnest. Other resource operations such as large scale gold mining and pipeline construction quickly made a visible impact on both the native population and the physical environment of the arctic. From the frequent collapse of structures all over the north, it was apparent that little was understood about engineering requirements in permafrost areas. The people who lived in and understood the north, and those who were going to the north to build and make decisions needed to get together and understand each other's problems..

The first of the northern schools was the Arctic Summer School.



Clockwise beginning at the top left. The Eastern Arctic Winter School at Igloolik N.W.T.—the igloos were constructed as part of a demonstration for the school. Hardy participants may chose to spend the night in the igloos. The Arctic Summer School—man made islands such as this are constructed by dumping large quantities of earth on the ice during the late winter. When the ice melts in the early summer, the earth is left in the form of a small island. Drilling rigs can then be put into operation. Igloolik—an Eskimo applying water to the runner of a dog sled. The water freezes forming a layer of ice on the runner, allowing the sled to slide with less effort over the snow. The Arctic Summer School—a tugboat and icebreaker transporting a research ship to open water. Note that the research ship is inside the icebreaker.

Over the years the curriculum for the school developed into four subject areas. The following curriculum description is from the course guide for the school.

The people—their origins and history, the ways in which they make their living, the factors affecting their attitudes toward development, and the structure of government and other local institutions.

The physical surroundings—the land and the climate, the river system, and the proven and potential non-renewable resources.

The ecology—life systems and interdependence among various life forms, important northern plant and animal species, and the effects of man-made changes on various life forms.

Engineering—the effect of cold on man's activities, permafrost, construction practices, design of utilities, transportation, resource exploration, offshore drilling and petroleum development systems.

One of the basic concepts behind the design of the school is that participants would obtain maximum benefit by travelling to and living in the north.

The two week school is held at four locations, beginning in Edmonton with two days of classroom sessions. The school then moves to Hay River with

tours to Pine Point. While in the Arctic, days are taken up with tours and field trips, and most evenings are spent at informal classroom sessions.

The next stop from Hay River is Yellowknife. Days are spent touring mining operations, meeting with the Department of Defense and the local government. Studies include the history, the people, and engineering concepts.

An entire week is centred around Inuvik with tours to the Mackenzie Delta, Tuktoyaktuk, Aklavik and the Arctic Red River, and several industrial sites. All aspects of the region are studied and the students meet and discuss a variety of issues and topics with members of the local population.

In 1977 and 1978 two new northern schools were established, the Yukon Summer School and the Eastern Arctic Winter School. The Yukon Summer School is

much like the Arctic Summer School, the major differences being in the location. The Eastern Arctic Winter School begins in Montreal and then moves to the intense winter cold of the Arctic island of Igloolik. Igloolik is located in Foxe Basin off the northeast end of Melville Peninsula. The area was first explored by Sir Edward Parry in 1822.

The Eastern Arctic Winter School offers the rare experience of observing first hand the rigors of life in the Arctic winter. Participants require the use of Arctic quality sleeping bags and clothes. For those hardy enough to endure, the program includes the opportunity to sleep out in an igloo! Aside from the unequaled experience of an Arctic winter, the curriculum is of the same nature as those of the two summer schools.

Generally all of the schools have met with good success.

Students have indicated that they were pleased with the structure of the courses, and that their appreciation and understanding of the north had greatly increased. For 1979 low enrollment and budget restraints resulted in the cancellation of two of the schools. This year only the Eastern Arctic Winter School was held as scheduled. Course organizers are optimistic that interest in all of the schools will pick up in 1980 as a result of the latest surge of resource activity in the north.

The Northern Schools are a costly venture with tuition fees ranging from \$1,250 to \$1,825. The moneys pay for extensive air travel, study materials, living expenses, and lecture fees. Many companies and organizations have contributed in a variety of ways to the programs. No doubt costs would be much higher without their aid. □

Physical Education Summer Camps

The ever-popular Golden Bear and Panda Summer Sports Programs are now well underway. This summer is the thirteenth in which the programs have been held.

The programs are dedicated to the fostering of understanding and sportsmanship and to the encouraging of those taking part in the various Summer Sports Camps. The Camps are designed to provide each participant with the best available instruction in fundamentals and techniques in the sport in which he or she is interested.

Instructors include Golden Bear and Panda coaches, other Physical Education Faculty staff members, and members of the Golden Bear and Panda teams. For the youngsters taking part, the quality of the instruction combined with the quality of the University's facilities usually adds up to a tremendous learning experience.

This summer, the campus is the setting for programs in basketball, field hockey, figure/power skating, gymnastics, hockey, swimming, tennis, football (quarterbacks and receivers only),



Gymnastics Summer Camp taking place here on campus.

and wrestling. As usual, hockey is the most popular program with 616 boys ranging in age from 8 to 18 registered. Swimming, basketball, and figure/power skating also have more than 100 registrants for their camps.

At Jasper, Alberta, 219 people will take part in the three volleyball camps offered in the mountain setting. There, one camp is for junior high players, another is for senior high and university athletes, and the third, which has a registration of 80,

is for coaches desiring to upgrade their certification. The participants at the Jasper Volleyball Camp will be able to benefit from the experience of some top Japanese coaches who will be in residence.

The total registration for 1979 Golden Bear and Panda Sports Program is almost 1,400. About half of the registrants come from outside the City of Edmonton. For those participants desiring it, accommodation is available at the Lister Hall Residence Complex for very reasonable rates. □

FOLIO

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All inquiries and correspondence should be directed to:

Folio
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423 Athabasca Hall
University of Alberta
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The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons.

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Health and Safety on Campus

Safety on campus is often taken for granted in spite of extensive advertising and awareness programs. Perhaps the casual interest shown is the result of the University's good safety record, or because of the ages old excuse that it won't happen to me.

Within the University community are a multitude of potential hazards for both staff and students. The campus consists of about one hundred buildings full of chemistry, physics and biology laboratories; special research equipment and hazardous chemicals and materials. The campus is served by a sizeable vehicle pool, and roadways have been likened to a jungle maze. As demonstrated by incidents in the US and elsewhere, nuclear research (which takes place here on campus) and radiation are certainly on the list of potential hazards. Safety Coordinator, Wendy Kinsey pointed out that among the greatest dangers on campus are the simple ones, like tripping and falling.

Happily, the University of Alberta scores high on university and industry good safety records. Behind this record of safety are six safety concerned campus organizations whose diligent but often unheard of efforts have resulted in a low accident rate. The six campus health and safety concerned organizations are: Bio-Safety Committee; Radiation Control Committee; Slowpoke II Nuclear Reactor; Campus Security; Occupational Health Safety and Fire; and University Health Services. Members of these organizations deserve much praise for outstanding contributions and many hours spent in developing programs and safety measures—such as emergency fire routes, training programs for staff members working in hazard zones, and preventative health programs.

Occupational Health and Safety and Fire recently established a quarterly *Safety Bulletin* to inform the entire University community of the various health and safety organizations and the



Safety Exposition 1978 was strategically located in CAB.

services and emergency equipment they provided. *Safety Bulletin* features information on safe working practices, emergency procedures, and first aid. The creators of *Safety Bulletin* intend that regular readers will become familiar with the actions to be taken if any of a variety of accidents were to occur. Whether it be an acid spill, or a severe burn, informed readers will be able to reduce injury and damage through quick and decisive action.

During 1978, Mrs. Kinsey organized the first annual Safety Exposition, held in CAB. Preparations are underway for the second exposition scheduled for 30 and 31 October of this year. Displays from nine safety and health companies in the Edmonton area will be on hand along with those from all six campus organizations. As well, the Edmonton Safety Council, and two Alberta Government Departments will be

campaigning for good health. The exposition is an attempt to familiarize the University community with potential hazards, and the equipment and methods of preventing or reducing injury.

Although the various campus organizations offer a wide range of training programs and services, they cannot be effective if the public does not take advantage of the offers.

Mrs. Kinsey emphasizes the value of the fire alarm network that covers the campus. No phone numbers to remember or doors to unlock, simply pulling the alarm will bring immediate aid to any location on campus. The emergency need not be a fire, it could be a heart attack or a threat of violence. An alternative to the fire alarm is the twenty-four hour emergency number, 4855. This number can also be used to advise the nature of an emergency after an alarm has been pulled. □

Chinese Scholars Visit Alberta Universities

The following news release was received from Alberta Advanced Education and Manpower, 17 July.

Under an agreement announced today by the Secretary of State for External Affairs and the Council of Ministers of Education, Canada (CMEC), the Universities of Alberta and Calgary have offered to place ten scholars from the People's Republic of China into programs.

Jim Horsman, Minister of Alberta Advanced Education and Manpower, says. "The scholars would participate in research and studies in three particular fields—medical science, physical science and engineering. Six would attend the University of Calgary, while the other four would be placed at the University of Alberta in Edmonton."

The agreement was reached following an initial visit by the Chinese to Canada last August, and two subsequent trips this spring to China by delegations representing the provinces, External Affairs and the Council of Ministers.

Dr. Des Berghofer, Assistant Deputy Minister of Program Services, represented Alberta during the negotiations. "The Chinese are anxious to expose their senior academics and students to scientific and technological expertise in foreign countries. They are determined to rehabilitate their system of higher learning which serves 860,000 students at 80 key universities of which about 50 specialize in training and research in technologies. This cooperative program, which has an exchange element to it, is part of the attempt by that government to raise their educational level.

"The visiting scholars, who would return to China to teach at the university level, would audit a number of open classes. In addition, they would be doing some research and participating in specially designed programs," Dr. Berghofer explained.

The overall agreement establishes a special program to facilitate the placement of approximately 100 Chinese scholars in Canadian institutions in 1979. The Council of Ministers of Education, Canada, in concert with provincial education authorities and other provincial or federal agencies, will assist in the placement, language evaluation, orientation and liaison with the academic community for this program.

The Chinese government, through its Embassy in Ottawa, will be responsible for the accommodation, living, travel, personal books and equipment, health insurance, supplementary language training costs, as well as for such fees as a province or university or other institution requires of a person of scholar status. Under the terms of this special program, "scholar" means a person pursuing research or studies for purposes other than attaining a university degree in Canada. The

Chinese authorities will also be responsible for direct research costs, except where other individual arrangement may be applicable.

In addition to the special scholar program, it was agreed that China could place undergraduates and postgraduates in Canadian institutions through other arrangements acceptable to both countries. The Chinese government agreed to promote accessibility of Canadian scholars and students to its institutions of higher learning by facilitating travel in China, access to research materials and attendance at regular courses.

"This is an excellent example of multi-level cooperation—the governments of two countries, the provincial and federal governments working with and through the Council of Ministers of Education and, very importantly, the numerous universities across the country," Mr. Horsman concluded. □

Non-Academic Staff Association

The following news release was received from NASA.

A portion of the arbitration award covering pay only was given to NASA on 10 July by the Arbitration Board. All salaries have been increased by 1.7% over the rates which were in effect on 1 April 1978, including the 5.8% or \$50 already included in salaries, ranged from 7.6% to 10.5%. The retroactive payment will range from about \$11 to \$45 per month depending on the salary which was being paid.

The chairman of the Arbitration Tribunal agreed to release the pay portion of the award in advance due to the length of time arbitration has taken. The remainder of the award should be forthcoming in the near future, and we will release the details of it to you when it is received.

It has now been nearly six

months since we originally applied for arbitration to settle our collective agreement. While it must be admitted that there were a substantial number of issues for the various Boards we have been before to consider, this kind of delay is completely unacceptable. The present legislation places no time limits on either the Public Service Employee Relations Board or on an Arbitration Tribunal, and unfortunately, without such constraints there is no way to legally require a decision within a reasonable period of time. In addition, the Public Service Employee Relations Board is a part-time board appointed from around the province who meet irregularly, and most arbitrators are lawyers who also seem to have difficulty in arranging meetings.

We will endeavor to publicize our problems and delays once the award is completed. In addition, we intend to lobby the government for changes in the legislation which we hope will help to prevent this kind of delay from occurring again. We deeply regret the time which has been involved in putting a new agreement in place and understand the frustration you have all experienced as a result. With an agreement to work from for the 1979-80 negotiations, it is hoped that a settlement will come a great deal faster.

Annual Meeting

The new Executive was elected as follows:

President—Brendon O'Neill,
Physical Plant
Past President—Dave Tomlinson,
Geology
Vice-President—John Wilson,
Physical Plant
Treasurer—Joyce Kurie, Botany
Secretary—Mildred Richardson,
Education Library
Grievance Chairman—Jim Bennett,
Computing Services □

Sheila Watson Honored with Exhibition

Until at least the end of September the University's Special Collections is presenting an exhibition of author Wyndham Lewis' works in honor of Professor Emeritus, Sheila Watson.

The decision to honor Mrs. Watson was obvious. Although best known for her novel, *The Double Hook* (1959), her greatest influence during her fourteen year tenure with the English Department was in twentieth-century British literature, particularly Wyndham Lewis and his circle.

Between 1963 and 1974, she supervised six master's theses and three PhD dissertations on Mr. Lewis at the University. She retired in 1975.

Percy Wyndham Lewis was born in Nova Scotia in 1882. He went to England in his early childhood and was educated at Rugby and the Slade School of Art.

Mr. Lewis always considered himself an artist first, and a



The cover illustration for the 'Apes of God' by Wyndham Lewis.

writer second. He was one of the most advanced English painters of his time, influencing both his contemporaries and other young artists after the Second World

War. Particularly interesting are his portraits of such notables as Ezra Pound, T.S. Eliot and Edith Sitwell, who are not only great figures of the time but also his close friends.

He published his first novel, *Tarr*, in 1918, after which he published novels, poetry and various critical books and essays. His writings are largely satires of an explosive but penetrating character and his very remarkable style is muscular and direct. In 1949 he began to lose his sight and he became totally blind in 1953. He died in 1957.

In April of this year, the Department of English presented Special Collections with two important early editions of *Tarr* in honor of Sheila Watson. This exhibition celebrates these gifts and Mrs. Watson's career.

Special Collections is located in the basement of Cameron Library, Room 033. It is open Monday to Friday from 8:30 a.m. to 4:30 p.m. □

coming events

As a result of the civic holiday, listings must reach the Editor by 9 a.m. on Wednesday, 1 August. Written notification is necessary. Listings should be sent to 423 Athabasca Hall.

35 Alberta Artists Present "The Works"

"The Works"—an invitational exhibition organized by the Students' Union Art Gallery and guest curated by Edmonton Art Consultant, Linda Wedman. Works by thirty-five Alberta artists are represented in the exhibition in the areas of ceramic art, blown glass, stained glass, and watercolors. Works by well known



A ceramic by Noboru Kubo.

artists such as Harry Savage, Robert Sinclair, Charles Hilton, Noboru Kubo, John Chalke, Anne Marie Schmid Esler, John Reed, Margaret Mooney and Adeline Rockett will be on display. The exhibition and sale runs 26 July to 10 August with an opening

reception Wednesday, 25 July at 8 p.m. Gallery hours are daily from 12 noon to 7 p.m. For further information call the Students' Union Art Gallery at 432-4547. □

Theatre

Edmonton Public Library
1 August. "The Strand Theatre Show." A Studio North and Edmonton Public Library Production of the vaudeville era in Edmonton. Adults \$4 and students \$3. Performances in the Centennial Library Theatre. Tickets available at Woodward's, SUB and at the door. Telephone 423-2331 for information.

Northern Light Theatre
Continuing. Two plays: "Piaf: Her Songs, Her Loves" and "Eight to the Bar." Performances in Corbett Hall. Telephone 429-3110 for information.

Walterdale Playhouse
Until 28 July. "The Fate of a Poor Miner's Daughter." The theatre's annual Klondike Days Melodrama. Telephone 424-0121 for information.

Lectures and Seminars

Department of Computing Science
2 August. 2 p.m. Sreekaanth S. Isloor of the University will speak on "Consistency Aspects of Distributed Databases." General Services Building, Room 617.

Exhibitions

University Special Collections
Continuing. "Wyndham Lewis: An Exhibition in honor of Sheila Watson." Showing in the basement of Cameron Library, Room 033. Monday to Friday 8:30 a.m. to 4:30 p.m.

Corbett Hall
Continuing. Pencil drawings by Cecile Szaszkiwicz, Showing in the lobby of Corbett Hall.

University Art Gallery and Museum
Continuing. "Inuit Games and

Contests," an exhibition of sixty-one Eskimo prints from the Clifford E. Lee Foundation collection; plus some Inuit sculpture from the University's permanent collection.

Continuing. "Peter Hide's Sculpture," four are situated on the lawn outside the Ring House and one inside the gallery. Continuing. Western Canadian Art Association Publications Awards 1979.

The Edmonton Art Gallery
Continuing. "Children by Children." Selected works by children from city-wide entries. Continuing. "Permanent Collection." An exhibition of works from the Gallery's own collection.

Edmonton Public Library
Continuing. "Heritage Day." Photographs by Helen Fitzpatrick. Showing in the Photography Gallery at the Centennial Library.

Latitude 53
Continuing. The first major retrospective of Sylvain Voyer.

Students' Union Art Gallery
26 July. "The Works." An invitational exhibition and sale of works in the areas of ceramic art, blown glass, stained glass and watercolors by artists living and working in Alberta.

Devonian Botanic Garden
Plants in bloom during the first week of August. Agrimonia, Cephalaria, Eryngium, Hemerocallis, Liatris, Lilium, Lythrum, Phyteum, Sedum, Tanacetum, Verbascum.

Provincial Museum
28 July. Alberta Culture presents an exhibition of East Indian costumes featuring 54 costumes complete with headgear, footwear, jewelry, and artifacts such as weapons and musical instruments. Telephone 427-6530 for information.

Music

Faculty of Extension
26 July. 8 p.m. Recitals in connection with a Voice/Opera

Workshop. The first recital Opus 35 by Robert Schumann and sacred songs from "Spanische Liederbuch" by Hugo Wolf. Performances in Convocation Hall.

Films

The National Film Theatre
27 and 29 July. 7:30 and 9:30 p.m. "The Red Dress" and "Dreamspeaker." Two films giving insights into our native Indians' cultures. Showing at the Citadel's Zeidler Hall. Telephone 426-4811. Free admission.

Department of Radio and Television
27 July. 10:30 a.m. "To Everything There is a Season: Holy Trinity Parish-Russo Greek Orthodox." Televised on CFRN TV.

Provincial Museum
29 July. 4 p.m. A series of travel films, this week's "Quebec." Free admission.

service information

As a result of the civic holiday on 6 August, all information destined for Folio must be received in 423 Athabasca Hall by 9 a.m. on Wednesday, 1 August.

Notices

Rutherford House
The home of Alberta's first premier has been designated a Provincial Historic Resource. Rutherford House, at 11153 Saskatchewan Drive, Edmonton, was built in 1911 for Dr. A.C. Rutherford, who was Premier of Alberta from its inception as a province in 1905, until 1910. Dr. Rutherford's government laid the administrative and legislative foundations of the province and was responsible for establishing the University of Alberta. Dr. Rutherford served on the University's Senate from 1907 to 1927, and as Chancellor from 1927 until his death in 1941.

Library Hours

The university buildings will be closed on 6 August 1979 (Heritage Day) and classes have been cancelled, this includes the university libraries. The Cameron, Rutherford, and Education libraries will be open 4 August from 1 p.m. to 5 p.m. The John W. Scott Library will be open from 9:00 a.m. to 5:00 p.m. The Education Library will be open 5 August from 1 p.m. to 5 p.m. All other libraries will be closed that day.

New Schedule of Fines

On Friday, 4 May 1979 the Board of Governors approved a new schedule of fines for offences under the University of Alberta Traffic and Parking Regulations. The new fines are listed in the Regulations, copies of which are available from Parking Services.

Certificate Program in Occupational Safety

The Faculty of Extension, in cooperation with the Alberta Association of Safety Personnel, is offering a new certificate program in occupational safety. It is directed to the safety professional working or wanting to prepare to work in safety, accident prevention, loss control, loss management or resource conservation, and is designed to provide the participants with a background and knowledge of current ideas and methods used in occupational safety work.

The program consists of six evening courses and two day seminars and to qualify for a Certificate in Occupational Safety, all courses and seminars must be successfully completed.

Students who have successfully completed the previous three-phase Accident Prevention Administration Program will be able to obtain advanced standing in this new certificate program.

Courses will commence during the week of 17 September 1979, and a brochure describing the program in detail is available by telephoning 432-3037 or 432-5038.

Certificate Programs

The University Faculty of Extension has, for several years, offered evening programs consisting of several courses to those people in business, government, and industry who wish to broaden their outlook and to develop their capacities for increased responsibility.

Applications for the Computers and Business Data Processing, Management Development, Personnel Administration, Employee Benefits Administration, Real Estate, Public Administration, Occupational Safety, and Applied Land Use Planning Techniques Certificate Program courses are now being accepted.

Additional information about these programs may be obtained by calling the following numbers: Computer and Business Data Processing, 432-5545 or 432-3027; Management Development, 432-5545 or 432-3027.

Personnel Administration, 432-5545 or 432-3027

Employee Benefits Administration, 432-5545 or 432-3027

Real Estate, 432-5060

Public Administration, 432-5052

Occupational Safety, 432-5038

Applied Land Use Planning

Techniques, 432-2912

Application forms are available in Room 228, Corbett Hall, 82 Avenue and 114 Street.

Surplus Equipment

The equipment listed below has been declared surplus. For further information about the purchase of this equipment or the disposal of any of your department's surplus equipment, consult Bonnie O'Dwyer or Roy Bennet, telephone 432-3208.

Welch Duo-seal 1397B vacuum pump, capacity 425 liters per minute, complete with 115/230VAC motor and manual. For further information call D.A. Tomlinson, 432-3191.
Sorenson 30KV Power Supply, Model 5030-4, 1KV to 30KV at 4MA output, complete with manual, circuit diagrams, spare tubes. Suitable for electron gun, has 10V 3A filament supply, suitable for .005 inch tungsten wire filament. Positive or (presently) negative output. Input required is 105 to 125 VAC, 2.5A RMS. For further information call D.A. Tomlinson, 432-3191.

Positions Vacant On-Campus

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 20 July.

Assistant Coordinator

One temporary full-time position is available in the International Student Office from 13 August to 7 September. Salary: \$800. Duties will include picking up new students from the airport, helping to look for housing, and assisting with arrangements for the orientation program. Must be personable, energetic, willing to work irregular hours and have access to a car. Apply at Room 225 Athabasca Hall (432-4145).

Supervisor/Radio and Television Production

Required for the Department of Radio and Television to be responsible for both administration and production. The Supervisor will coordinate the efforts of five supporting production staff and oversee the production of instructional programming as well as broadcast and non-broadcast public

programming.

Some university or college training is desirable, supplemented with a minimum of five years experience in the production of television programs.

Starting salary from \$18,926 per annum commensurate with training and experience. The University offers a comprehensive employee benefits package.

Interested applicants should apply by comprehensive résumé to:

Director

Department of Radio and Television

University of Alberta

6-29 Mechanical Engineering Bldg.

Edmonton, Alberta

T6G 2G8

Sessional Instructor

The Department of Home Economics requires a Sessional Instructor in clothing and textiles for 1979-80. To supervise beginning construction laboratories. BSc or MSc with advanced construction required. Phone 432-3824.

Education Reference Librarian

The Education Library of the University of Alberta requires an Assistant Reference Librarian. Responsibilities will include providing reference service, assisting in the orientation and instruction of library users, searching computerized data bases and indexing for the Canadian Education Index. In addition, the librarian will be responsible for the supervision of the Education Reserve Room. Library Science degree required; background in Social Sciences or experience in Education an asset; knowledge of French and reference experience desirable. Salary according to experience and qualifications. Academic status, excellent fringe benefits, removal grant. Applicants should send curriculum vitae, transcripts of academic record, and the names of three references to Bruce Peel, Chief Librarian, University of Alberta, Edmonton, Alberta, T6G 2J8. Deadline for receipt of applications is 13 August. The University of Alberta is an equal opportunity employer.

Bibliographer

The University of Alberta Library requires a general librarian for the Bibliographic Verification Division. Responsibilities will include supervision of Library Assistants engaged in the bibliographic verification of requisitions, assigning vendors for the placing of orders, and checking incoming material for proper distribution. Graduate degree in Library Science required. Experience in Technical Services desirable but not essential. Knowledge of languages other than English an asset. Salary according to experience and qualifications. Academic status, excellent fringe benefits, removal grant. Applicants should send curriculum vitae, transcripts of academic record, and the names of three reference to Bruce Peel, Chief Librarian, University of Alberta, Edmonton, Alberta, T6G 2J8. The University of Alberta is an equal opportunity employer.

Research Assistant

A Research Assistant is required to work with a group of researchers studying breast cancer in northern Alberta. Must be able to write scientific papers, work innovatively and independently, with knowledge of social and medical science research methods including data analysis. A BSc or MSc in a natural, social or medical science is preferred. Demonstrated writing ability and research experience are required. Director of Personnel, Cross Cancer Institute, 11560 University Avenue, Edmonton, Alberta, T6G 1Z2.

Research Assistant

Wanted full time research assistant (psychology), 1 August or 1 September, 1979. Salary (\$10,000 to \$12,000 per year). BA degree required. Call Brendan G. Rule, 432-3601.

Sales Clerk I (\$707-\$761)—Bookstore
Clerk Typist II (\$707-\$761)—Office of the Comptroller (term) (two positions); Anthropology (term); Rehabilitation Medicine (term); Secondary Education (term); Secondary Education Clerk Typist II (\$355-\$425, term, trust, half-time)—Sociology
Clerk Steno II (\$707-\$844)—Educational Foundations; Extension
Library Clerk II (\$707-\$844)—Music; Faculté Saint-Jean
Dental Records Clerk (\$761-\$910)—Dentistry (term); Dentistry
Senior Clerk (\$761-\$910)—Parking Services
Programmable Typewriter Operator I/II (\$761-\$985)—Personnel Services and Staff Relations
Clerk Typist III (\$761-\$910)—English; Library Science; Economics; Educational Administration; Field Services (term); Geography; Administrative Services (two positions); Medical Bacteriology
Clerk Typist III (\$5.00/hour, term, trust, half-time)—Student Affairs
Women's Equipment Room Attendant (\$4.53-\$5.45/hour, weekend hourly work)—Physical Education and Recreation
Senior Financial Records Clerk (\$785-\$945)—Drama
Clerk Steno III (\$785-\$945)—Sociology; Chemical Engineering; Student Counselling Services; Continuing Medical Education; Field Services (term); Extension; Rural Economy; Civil Engineering; Law; Administrative Services; Obstetrics and Gynaecology; Physiology; University Occupational Health, Safety and Fire; Physics; Mineral Engineering; Secretariat
Clerk Steno III (\$818-\$985, trust)—Legal Resource Centre
Student Record Processing Clerk (\$817-\$985)—Education
Admission Records Trainee/Assistant (\$817-\$1,026)—Office of the Registrar (four positions)
Medical Steno (\$844-\$1,026)—Psychiatry
Accounts Clerk (\$844-\$1,026)—Office of the Comptroller
Secretary (\$439-\$535, half-time)—Secretariat

Secretary (\$878-\$1,071)—Dean of Engineering (term); Business Administration and Commerce; Dental Clinical Sciences; Student Counselling Services; Health Sciences—Computing; Medicine; Housing and Food Services Secretary/Department Secretary (\$878-\$1,212)—Senate Secretary ((\$915-\$1,116, trust)—Nursing (Nurse Practitioner Program); Theoretical Physics Institute; Cancer Research Unit Admission Records Assistant (\$455-\$558, half-time)—Physical Education and Recreation Administrative Clerk (\$910-\$1,115)—Medical Bacteriology; Physics Departmental Secretary (\$985-\$1,212)—Introductory Biology Data Entry Supervisor (\$985-\$1,212) Administrative Systems Senior Systems Control Clerk (\$1,026-\$1,264, term)—Field Services—Education Computer Assistant I (\$707-\$844)—Computing Services Laboratory Assistant II (\$733-\$878)—Pharmacy Laboratory Assistant II/III (\$733-\$985)—Provincial Laboratory Building Service Worker II (\$817-\$985)—Housing and Food Services Technician I (\$910-\$1,115)—Computing Services Photographer II (\$910-\$1,115)—Audiovisual Media Centre Audiovisual Technician I (\$910-\$1,115)—Audiovisual Media Centre Dental Technician I (\$945-\$1,162)—Dental Clinical Sciences Instrument Technician I/II (\$945-\$1,320)—Chemical Engineering Technician I (\$949-\$1,162, trust)—Plant Science Assistant Herdsman (\$949-\$1,162, trust)—Animal Science Poultryman (\$949-\$1,162, trust)—Animal Science Building Service Worker IV (\$985-\$1,212)—Physical Plant Storeman III (Equipment Inventory Assistant) (\$1,026-\$1,264)—Technical Services Security Officer I (\$1,026-\$1,264)—Campus Security Electron Microscope Technician II (\$1,026-\$1,264)—Pathology Electronics Technician II/III (\$1,071-\$1,501)—Chemistry Programmer/Analyst I (\$1,070-\$1,318, trust)—R.S. McLaughlin Examination and Research Centre Technologist I (\$1,070-\$1,318, trust)—Physiology Bacteriology Technologist I/II (\$535-\$750, term, trust, half-time)—Medical Bacteriology Biochemistry Technologist I (\$1,070-\$1,318, trust)—Pharmacology Assistant Pool Supervisor (\$1,071-\$1,320)—Physical Education and Recreation Art Technician-Demonstrator I (\$1,115-\$1,477)—Art and Design (three positions) Technician III (\$1,162-\$1,439)—Biomedical Engineering Biology Technician III (\$1,162-\$1,439)—Genetics

Administrative Assistant (\$1,162-\$1,439)—Extension Technician III/IV (\$1,162-\$1,638)—Anatomy Programmer/Analyst II (\$1,212-\$1,501)—Computing Services Technologist II (\$1,212-\$1,500, trust)—Surgery Programmer/Analyst II (\$1,264-\$1,565, term, trust)—Computing Services Technologist III (\$1,320-\$1,638)—Mineral Engineering Technologist III (\$1,320-\$1,638)—Mineral Engineering Programmer/Analyst III (\$1,439-\$1,789)—Computing Services; Computing Science Engineering Technologist IV (\$1,439-\$1,789)—Physical Plant Engineering Technologist V (\$1,638-\$2,044)—Physical Plant Specialist Technician (\$1,638-\$2,044)—Physics Specialist Technician (\$1,708-\$2,131, trust)—Physics Physical Plant Manager I (\$1,789-\$2,238)—Physical Plant

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in the Cameron Library, Room 512, should be consulted for further information as to availability and position requirements.

Library Clerk II (\$707-\$844)—Circulation Library Clerk III (\$761-\$910)—Education; Cameron Reserve Reading Room Library Assistant I (\$817-\$985)—Government Publications; Circulation Accounts Clerk (\$844-\$1,026)—Accounting Secretery (\$878-\$1,071, term)—Administration; Library Support Services Library Assistant II (\$910-\$1,115)—Cataloguing; Education Storeman I/II (\$761-\$910)—Library Support Services

Off-Campus

Part-time Grants Coordinator
The successful applicant will be responsible for the overall exploration and development of grant applications. A high degree of English composition, supplemented with budgeting, general library research and business skills would be an asset. Anyone applying should submit a piece of factual composition and/or research along with résumé before 31 July 1979 to the: Selections Committee, Handicapped Housing Society, 10325 83 Avenue, Edmonton, Alberta, T6E 2C6. Physically disabled persons are encouraged to apply.

Advertisements

As a result of the civic holiday closure of University buildings, advertisements must be received before 3 p.m. on Wednesday, 1 August. The cost is 20 cents per word for the first week

and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

Accommodations available

For sale—New executive custom built home in Ermineskin. Unique two-storey design. 2,600 sq. ft. featuring four bedrooms, den, cathedral cedar entrance, formal living and dining rooms, island kitchen with Jenn Air barbecue, family room with fireplace, 2nd floor laundry room, double garage, backs on to greenbelt. Phone 434-6298.

For sale—Bungalow in Windsor Park at 8932 116 St. \$127,000. For appointment call 439-4207.

For sale—Grandview. Big, beautiful bungalow, on quiet crescent. Covered patio, mature trees and landscaping, one block from ravine. Front drive double garage, Two stone fireplaces, three piece bath en suite, main floor laundry. Asking \$179,000. Must be sold. To view ask for Maxine Tipper. Potter Realty. 436-3050. Res. 435-7103.

For sale—By Potter Realty. Two split level homes with three bedrooms and den. Main floor family room, double garage and nicely landscaped yard. Grandview. \$154,900. Old Riverbend \$139,500.

For sale—Attractive three bedroom, two storey home in Ottewell. Featuring three appliances in color coordinated kitchen, living and dining room facing back garden with sliding doors to patio deck. Well priced in the mid seventies. For more information on these homes call Eleanor Duncan 434-7368, 436-3050.

For rent—Large furnished apartment. Adult deluxe highrise; pool, beautiful view, excellent location, buses, shopping, University. No pets. Non-smokers preferred. References. Flexible September 1979 - May 1980. 488-5113.

For sale—Neat three bedroom bungalow in Lendrum. Well planned basement development, double garage. Within easy reach of University. Won't last. Call Denise Rout 432-7398 res., 436-5250 Spencer Real Estate.

For sale—Exclusive townhouse in Riverbend. Two storey with two large bedrooms, main floor laundry, open fireplace, double attached garage. Superior construction. \$83,900. Call Denise Rout 432-7398 res., 436-5250 Spencer Real Estate.

For sale—North Windsor Park bungalow. All rooms are large, ideal for entertaining. Home needs redecorating but is lowest priced in area at \$110,000. Call for viewing Jim Sellars, Block Bros. Realty. Office 452-7950, res. 424-6547.

For rent—Fully furnished three bedroom house near Misericordia Hospital. 1 November 1979 to 31 August 1981. Monthly rent \$600. For details phone 484-8376.

For sale—Open beam bungalow in Malmo. Mature landscaping. Basement professionally developed with extensive use of wood. Quality construction. Call Maggie Woytkiw 436-2376, Potter Realty Co. Ltd. 436-3050.

For sale—Four bedroom home backing on golf course is decidedly the best buy in Westbrook under \$200,000—Main floor family room features fieldstone fireplace, built-in bookcases, pegged oak floors and sliding doors to poured patio. For more details call Eleanor Duncan 434-7368, Potter Realty 436-3050.

For sale—Our spic and span three bedroom, two storey home in Ottewell featuring three appliances, fenced yard, carport, full basement with laundry hook-up is well priced at \$75,000. Why not see it today with Eleanor Duncan, Potter Realty 434-7368 or 436-3050.

For sale—Lakefront cabin, Nakamun Lake. Only 50 miles from Edmonton. Well kept property, mostly furnished. Asking \$44,500. Buy now and enjoy for the rest of the summer. Call Ken Smith, Potter Realty, 436-3050 or 434-3783.

For sale—Miquelon Lake cottage, surrounded by Provincial Park. \$33,500. Call Morris 986-2190.

Must sell—By owner. Four bedroom semi-bungalow University area. Excellent condition. New carpets, lino main floor. ETS ½ block. Fenced. \$72,900. 435-5612. No agents.

For sale by owner—2 x 100 acres divided by country road. Natural ski slopes; excellent for country lodge. Beautiful view to Pembina Valley. \$200,000. Cash only. 433-0629, 727-2483.

For sale—By owner. Quiet condominium. 990 sq. ft. Three bedrooms, 1½ baths, plus finished basement. Fridge, stove. \$48,200. Willowdale Place (West-end). Direct university bus. 487-7133 or 434-5064.

For rent—University area, 3 rooms, furnished. Private entrance, bath. References. 1 September. \$275. 436-5010.

For sale—exclusive showings on this charming four bedroom, traditionally styled home. Two blocks to university. Mrs. Pat Anderson, Royal Trust. 435-4869, 434-4460.

For sale—by owner. Townhouse on south-side Three bedrooms, 1½ baths, fireplace, garage. \$69,900. Phone 434-4751.

For sale—by owner. Petrolia. Three bedroom bungalow. Stove, fridge, dishwasher, deepfreeze, built-in cabinets. Extra large landscaped yard, sunken brick patio, double garage. Finished basement with stone fireplace. 20 minutes from university on direct bus route. Close to schools and shopping. \$94,500. 434-8072.

For rent—University Avenue Manor. Completely furnished one bedroom apartment. Paved parking. Available 1 September. \$310 monthly. Caretaker, Apartment 16, 10839 University Avenue. 433-6969.

For sale—Blue Quill condominium. 20 minutes from university. One year old, three bedrooms, 1½ bathrooms, carpet throughout. \$56,500, by owner. No agents. Day 432-5285; night 436-5982.

For rent—One bedroom basement suite. 10808 68 Avenue. Available immediately. \$285 monthly. 435-5378, 5 to 7 p.m.

For rent—Petrolia. Furnished three bedroom bungalow. 15 August - 1 June. 436-0723.

For rent—Executive home. Lansdowne. References. 1 year lease. 435-1556.

For sale—by owner—excellent executive two storey on Ravine Street in St. Albert. Four bedrooms, formal living/dining room, fireplace, family room, double garage. Close to schools, etc. 458-5001, 458-6718.

Accommodations wanted

Physician wishes to rent home for twelve months from September, 1979. Telephone Dr. Orford at 487-1871.

Professor and wife wanting to rent furnished house/apartment/farmhouse for academic year. Call collect 1-613-829-4521.

Responsible young couple seeking two bedroom house, south side, 1 September or earlier. References. 439-1211.

Post-doctoral fellow and wife looking for two bedroom suite in house near university by 1 September. Call Dr. Stacey, 432-5497, 436-6691.

Automobiles and accessories

1960 Mercedes 180. Gasoline engine. Good running order. Offers. Phone 432-4999 or evenings at 437-6398.

1971 Toyota Mark II, 1900 cc, needs body-work. \$500. 439-7442.

1978 Suzuki TS250 dirt bike. Street legal. 1,000 kilometres, helmet excellent condition. \$1,165. Phone after 5 p.m. 466-9750.

Goods and services

Experienced typist. Variety of type styles symbols. Quality work. 435-4407; 435-5006.

Will do top quality typing. Phone 455-6398.

Edmonton YMCA Chito-Ryu Karate Club. Phone 455-2139.

Expert typing—theses, etc. 455-0641.

Electric piano for sale. Full 88 notes. Stereo outputs and headphones.

Unfinished cabinet but beautiful sound. \$1,200. 436-1879 after 5 p.m.

Quality custom furniture, cabinets, shelving. 988-8549 evenings.

Good Neighbor Fence Company.

Quality wood fences, patio decks, odd jobs. Free estimates. 439-1211, 433-6794.

Donnic Typing Services Ltd. We have Word Processing Equipment.

Eliminates re-proofing correct text. Ideal for theses, manuscripts, tables, etc. 2nd floor, 10444 Whyte Ave. 432-1419.

Bechstein grand piano 7½ ft., beautiful instrument, 95 years old, completely

rebuilt. Refinished by one of Edmonton's finest piano rebuilders. Concert bench included. Must be seen and played. Offers over \$9,000 considered. 434-1334.

Antique and later—Furniture from England—tables, chairs, beds, cabinets, stools, upholstered chairs, etc. Porcelain—Doulton, Crown Derby, Coalport, Sèvres. Cloisonné. Ivories. Art Glass. Pictures. Brass and copper. Clocks. Old Maps. Books. Cameras. Jewellery. Old bottles. Tools. Edwardian clothes. Many more curiosities and gift items. Please inquire. Valuations undertaken. Mary Goulden Antiques. From 137 Ave. and 50 St. drive five miles north east on Highway 15, then 1½ miles east. Open Thursday through Sunday 1 - 8 p.m. 973-3656, 475-8139.

Babies wanted—Three to nine months old. Volunteers needed for short observations of early learning, at home or in lab. Dr. Cornell. 432-5216.

Get that job with a professionally prepared résumé. Call Val at Western Personnel to arrange for a personal interview. 432-7565.

Facelift painters—Specializing in excellence of workmanship and immediate service. Commercial, residential. Interior, exterior. 434-4833.

Typing on Word Processor. Call Darlene 452-7862, 987-2989.

Professional typing. 464-4887.

Exterior painting, excellent workmanship. Free estimates. 435-7157.

Live-in sitter needed for girl, 9, whose widowed father sometimes travels. Nice condominium near U of A. Ideal for mature student or older. Salary open. Call B. Day 424-0531 (office).

Renovating—Quality cedar decking, finishing siding material. Low prices. 967-5818.

Keep-fit yoga: New class begins 14 August. Classes Tuesday evenings. Fee for professional instruction only. Registration 7 August at 5 p.m., room 9 floor 14, Tory Building. For pre-registration or information write with your address to Box 184, University Post Office.

Mature and reliable person needed to babysit for a five month old baby. From Monday through Friday, 8:30 a.m. till 5 p.m. Good payment. Call evenings. 433-8880. University area preferable.

Tone of \$6,000 grand in apartment size small upright piano. Volume adjusts from whisper to concert level. Must be heard to appreciate tone quality. Phone Dean 432-3796, 436-1879.

For sale: Contents one bedroom apartment. Scandinavian style. After 5 p.m., weekends, 482-3812.

Sitter for one year old boy. Five mornings per week starting August. Non-smoker please. Garneau. 439-2948.

For sale—white Tappan stove—electric. Has clock, minute timer, and automatic pre-set timer. Excellent condition. 435-7838 after 5 p.m. \$100.

Reliable baby sitter to come in part-time, Tuesday - Friday, 7:45 - 2:45.

Two boys 7 and 2. \$220 monthly.

McKernan. 436-9283.

Color and fabric study. Men, all ages, needed for color and textile research. Color blind men especially asked to respond. Total time required 15 - 30 minutes. Contact Lorna Blackwell, Home Economics Building, Room 125. 432-5385, mornings.

Hacking wanted. Experienced lightweight adult, appalled by the prospect of eternally circumnavigating

an arena, seeks the use of a good horse for hacking. Sympathetic, good hands. 432-0879.

For sale—British Shorthair kittens. Blue, blue-cream, cream, red tabby. 436-4780.

Wanted old color portable TVs. Call 455-4289.

Wanted: Sitter for four month old boy, starting September. Janet, 435-4524. Reliable house sitters available. Information, references. 437-2377.

The University
of Alberta

We're reviving an old standard
(back to the good old days')

Bar-B-Q

Wednesday, 1 August

(changed from 25 July
as previously announced
to avoid conflict with
Citizen's Day)

In the quad west of CAB

Entertainment and cold beer
from 4:00 pm
Great food from 5:00 to
7:00 p.m.

Tickets \$4.00 each
on sale at all Housing and
Food Services outlets and
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